PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of an existing signal to provide for additional through lanes along US Route 1, an additional left turn lane along Sunnyside Avenue and a new median at the intersection of US Route 1 (Baltimore Avenue) and Sunnyside Avenue. The existing signal pole on the west side of the intersection will be removed and a new signal pole and mast arms will be installed. All existing loop detectors will be replaced with detection cameras except the advanced loop detectors on US Route 1 and Sunnyside Avenue, they will be replaced with micro-probes.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 8-phase, semi-actuated mode, with the East approach running seperately.

III. CONTROLLER REQUIREMENT

1. Re-use a fully-traffic-actuated, eight-phase controller in the existing NEMA size "6" base mounted cabinet. Video interface equipment will be installed.

IV. SPECIAL NOTES

1. The Maryland State Highway Administration Signal Shop shall be responsible for installing all new equipment in the cabinet.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
(301) 513-7311

MR. DENNIS McMAHON
ADE CONSTRUCTION
(301) 513-7345

MR. RICHARD DAFF
DIVISION CHIEF, TOD
(410) 787-7630

MR. MAJID SHAKIB
ADE TRAFFIC
(301) 513-7358

MR. BARRY KING
CHIEF, TEDD
(410) 787-4011

MR. EDWARD RODENHIZER
CHIEF OF SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST B

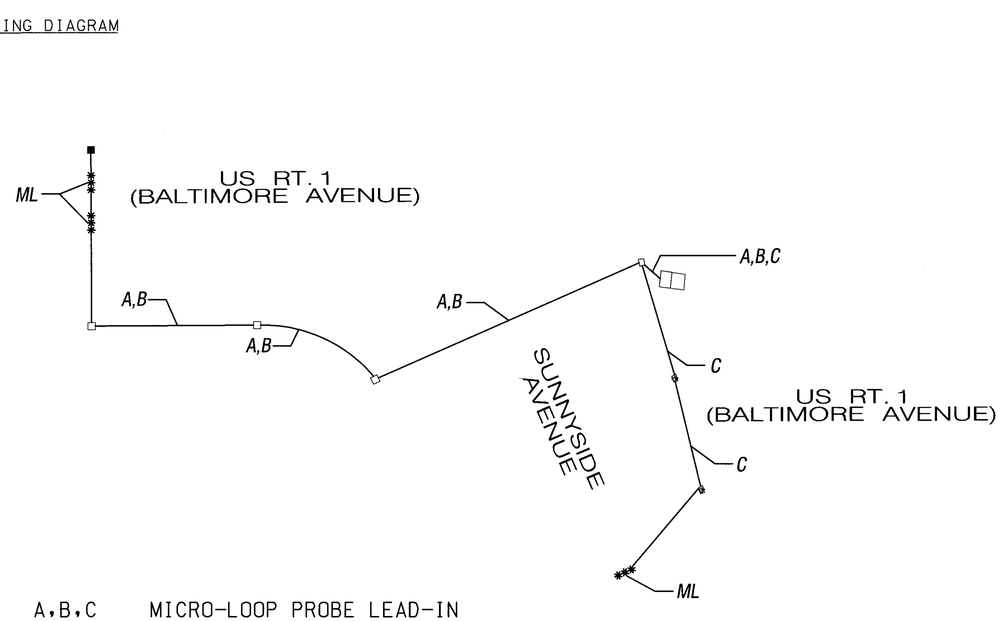
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

QUANTITY	DESCRIPTION
320 LF	FURNISH AND INSTALL 12 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
140 LF	FURNISH AND INSTALL 24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
60 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED)
1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
3 EA	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
10 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEX. CONDUIT (DETECTOR SLEEVE)
30 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

PHASING SEQUENCE CHART

	1	2	3	4	5	6	7	8	9	10	11
PHASE 02 & 05	R	R	R ◀G–	R ◀G–	G	R	R	DW	DW	DW	DW
PHASE 02 & 05 CHANGE	R	R	R ◀Y–	R ◀Y–	G	R	R	DW	DW	DW	DW
PHASE 02 & 06	G	G	G	G	G	R	R	WK	WK	DW	DW
PED CLEAR	G	G	G	G	G	R	R	FL/DW	FL/DW	DW	DW
PHASE 02 & 06 CHANGE	Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW
PHASE 04	R	R	R	R	R	G	G	DW	DW	DW	DW
PHASE 04 CHANGE	R	R	R	R	R	Y	Y	DW	DW	DW	DW
PHASE 04 ALT	R	R	R	R	R	G	G	DW	DW	WK	WK
PED CLEAR	R	R	R	R	R	G	G	DW	DW	FL/DW	FL/DW
PHASE 04 ALT CHANGE	R	R	R	R	R	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



A,B,C MICRO-LOOP PROBE LEAD-IN
ML MICRO-LOOP PROBE SET

TS-2

REVISIONS
⑥ MAST ARM POLE RELOCATED DUE TO GEOMETRIC IMPROVEMENTS 7/02 BAL

ENGINEERING-PLANNING-EARTH SCIENCES-SURVEYING
GREENHORNE & O'MARA, INC.
810 GLENEAGLES COURT, SUITE 106, BALTIMORE, MARYLAND 21286
(410) 583-6700
ANNAPOLIS,MD-BALTIMORE,MD-ATLANTA,GA-TAMPA,FL-FAIRFAX,VA-WEST PALM BEACH,FL
ROCKVILLE,MD-RALEIGH,NC-FREDERICKSBURG,VA-MECHANICSBURG,PA- ST. PETERSBURG,FL

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
Traffic Signal Plan (MOT Phase Ultimate)
US RT. 1 (BALTIMORE AVENUE) & SUNNYSIDE AVENUE

DRAWN BY:	H. KILIAN	F.A.P. NO.	J-902-11221	TS NO.	TS-1117E-GT
CHECKED BY:	H. KILIAN	S.H.A. NO.	P-323 C03 385	SHEET NO.	20 OF 22
SCALE:	1" = 20'	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO.	F 241
DATE:	JANUARY 20, 1974	LOG MILE:	1600107.1		

J:/TRANS/DEV-7224/SIGNALS/Sunnyside2(C).dgn
December 6, 2002 10:00